

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A mercury-free gas discharge lamp
having comprising:
an inner vessel including electrodes for providing a discharge
arc; and
an outer bulb, ~~characterized in that wherein at least one of~~
the inner vessel ~~and/or and~~ the outer bulb comprises a structured
arrangement pattern configured to increase a diffuseness of the
discharge arc.

2. (Currently Amended) ~~A~~ The mercury-free gas discharge lamp
as claimed in claim 1, ~~characterized in that the structured~~
~~arrangement is made such that the wherein the pattern is configured~~
to increase the diffuseness of the discharge arc of the mercury-

free gas discharge lamp with ~~structured arrangement increases by dD~~
by 0.01 mm up to 1.5 mm in comparison with the a corresponding gas
discharge lamp without ~~structured arrangement~~ the pattern.

3. (Currently Amended) A The mercury-free gas discharge lamp
as claimed in claim 1 ~~or 2~~, characterized in that ~~the structured~~
~~arrangement is made such that~~ wherein the pattern is configured to
reduce the discharge arc curvature of the mercury-free gas
discharge lamp with ~~a structured arrangement is reduced by dK by~~
0.01 mm up to ~~dK~~ 0.5 mm in comparison with the a corresponding gas
discharge lamp without ~~structured arrangement~~ the pattern.

4. (Currently Amended) A The mercury-free gas discharge lamp
as claimed in ~~any one of the claims 1 to 2~~, characterized in that
claim 1, wherein the mercury-free gas discharge lamp is at least
one of a mercury-free high-pressure gas discharge lamp, preferably
and a mercury-free xenon high-pressure gas discharge lamp.

5. (Currently Amended) A The mercury-free gas discharge lamp
as claimed in ~~any one of the claims 1 to 4~~, characterized in that

~~the claim 1, wherein light losses of the mercury-free gas discharge lamp with structured arrangement as compared with the a gas discharge lamp without structured arrangement the pattern amount to ≤ 90 lumens and ≥ 5 lumens, preferably ≤ 60 lumens and ≥ 10 lumens, and more preferably ≤ 50 lumens and ≥ 30 lumens.~~

6. (Currently Amended) A The mercury-free gas discharge lamp as claimed in ~~any one of the claims 1 to 5~~, characterized in that ~~the claim 1, wherein the at least one of the inner vessel and/or and the outer bulb is made of a material chosen from the group comprising at least one of glass and/or and ceramic materials, the inner vessel and outer bulb being preferably made of glass.~~

7. (Currently Amended) A The mercury-free gas discharge lamp as claimed in ~~any one of the claims 1 to 6~~, characterized in that ~~the claim 1, wherein the at least one of the inner vessel and/or and the outer bulb has a structured arrangement the pattern at least one of on its outer surface facing away from the discharge arc, on its outer surface facing the discharge arc, and/or and within the inner vessel or bulb material itself.~~

8. (Currently Amended) A The mercury-free gas discharge lamp as claimed in any one of the claims 1 to 7, characterized in that the inner vessel and/or outer bulb comprises a homogeneous and/or inhomogeneous structured arrangement, which structured arrangement is preferably claim 1, wherein the pattern is formed by at least one of a laser treatment, sandblasting, surface etching, surface slitting and/or and roughening, and is possibly optionally finished by fire polishing.

9. (Currently Amended) A The mercury-free gas discharge lamp as claimed in any one of the claims 1 to 3, characterized in that the structured arrangement claim 1, wherein the pattern covers a surface area of 2 mm² to 12 mm², said surface area being preferably arranged over the a brightest spot in the discharge arc.

10. (Currently Amended) The use of the mercury-free gas discharge lamp as claimed in any one of the claims 1 to 9 for illumination purposes, in particular in claim 1, wherein the mercury-free gas discharge lamp is configured for motor vehicles.

11. (New) The mercury-free gas discharge lamp of claim 1, wherein the pattern is further configured to provide an optical impressing when viewed from an exterior of the mercury-free gas discharge lamp, the optical impressing showing a change in a viewed position of a brightest spot of the discharge arc despite lack of an actual change of an actual position of the brightest spot within the mercury-free gas discharge lamp.

12. (New) The mercury-free gas discharge lamp of claim 1, wherein the pattern is further configured to not change an actual position of a brightest spot of the discharge arc and yet provide an optical impressing showing a perceived change in a perceived position of a brightest spot when viewed from an exterior of the mercury-free gas discharge lamp.

13. (New) The mercury-free gas discharge lamp of claim 1, wherein the pattern includes at least one of lines, dots, circles, rectangles, polygons.

14. (New) The mercury-free gas discharge lamp of claim 13, wherein the lines includes at least one of straight, curved, wavy, and spiraling lines.

15. (New) The mercury-free gas discharge lamp of claim 13, wherein the pattern includes shapes of at least one same and different sizes, and they may be partly or fully planar in shape.

16. (New) The mercury-free gas discharge lamp of claim 1, wherein the pattern includes shapes which are at least one overlapping and non-overlapping.

17. (New) The mercury-free gas discharge lamp of claim 1, wherein the pattern includes shapes which are at least one partly and fully planar.

18. (New) A discharge lamp comprising:
an inner vessel including electrodes for providing a discharge arc; and
an outer bulb, wherein at least one of the inner vessel and

the outer bulb comprises a pattern configured to increase a diffuseness of the discharge arc.

19. (New) The discharge lamp of claim 18, wherein the pattern is further configured to provide an optical impressing when viewed from an exterior of the discharge lamp, the optical impressing showing a change in a viewed position of a brightest spot of the discharge arc despite lack of an actual change of an actual position of the brightest spot within gas discharge lamp.

20. (New) The discharge lamp of claim 18, wherein the pattern is further configured to not change an actual position of a brightest spot of the discharge arc and yet provide an optical impressing showing a perceived change in a perceived position of a brightest spot when viewed from an exterior of the discharge lamp.